

Abstract of the Disclosure

Provided is a method of preparing a bioactive ceramic-coated composite.

The method includes coating calcium phosphate-based ceramic on a ceramic substrate; and thermally treating the coated calcium phosphate-based ceramic layer in a water vapor atmosphere. The bioactive ceramic-coated composite prepared using the method in which the decomposition of hydroxyapatite is suppressed can be used for artificial bioactive tissues which are harmless to the human body and satisfy chemical and mechanical requirements.

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